

# PHENIX WEEKLY PLANNING



2/19/2009

Don Lynch

## Run Support & Other Ongoing Work

### Run Technical Support (mechanical, electrical and gas systems)

As needed → always takes priority

### RPC Factory Support (continuing)

(see slides later)

### Prep for 2009 Shutdown

Design PC1 East maintenance support fixtures  
design 3/31, fabrication 5/31

NCC prototype design support (on-going med. priority)

VTX fabrication tooling design (on-going med. priority)

VTX installation design (on-going med. priority)

FVTX design/eng'g support (no support requested yet)

MMS Scaffolding Design

design 2/27, ordering/fabrication 5/1

New Beampipe supports (back logged)

### RPC3 North installation Prep

Installation plan (including installation site prep plan)  
2/27

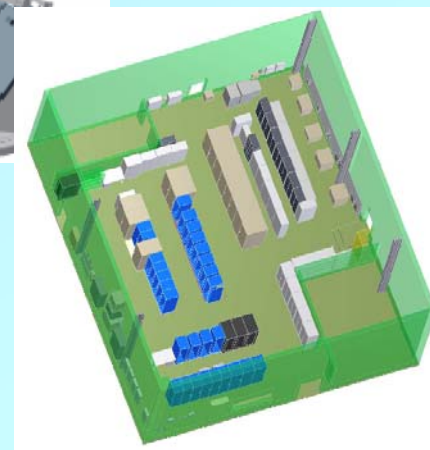
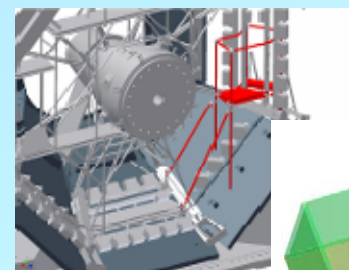
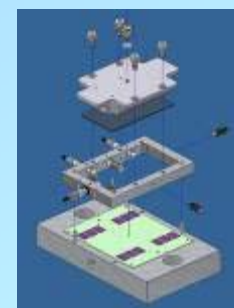
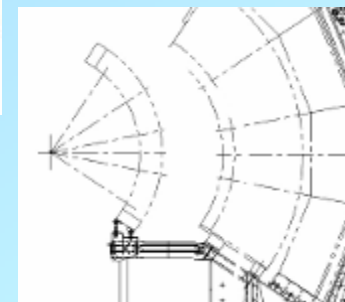
Installation fixture design 4/3

Installation fixture fabrication 6/26

### Maintenance & Overhead Tasks

Procedure Review/Updates (ongoing)

Rack Room, AH, Trailer, Mixing House, etc. (ongoing)



## 2009 Building Maintenance Issues

- Roof leak in utility bathroom at northwest corner behind tech offices.
- Roof leak over door between rack room and assembly hall.
- Trailer bathroom slop sink (for Custodians).
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- New duct heater (This item is in progress and should be completed soon)
- Improved Rack Room AC performance (This item has been addressed time and again but unsatisfactorily. Currently the AC fails periodically and is repaired only to fail again. On-condition maintenance is not adequate...an engineered solution is needed.)



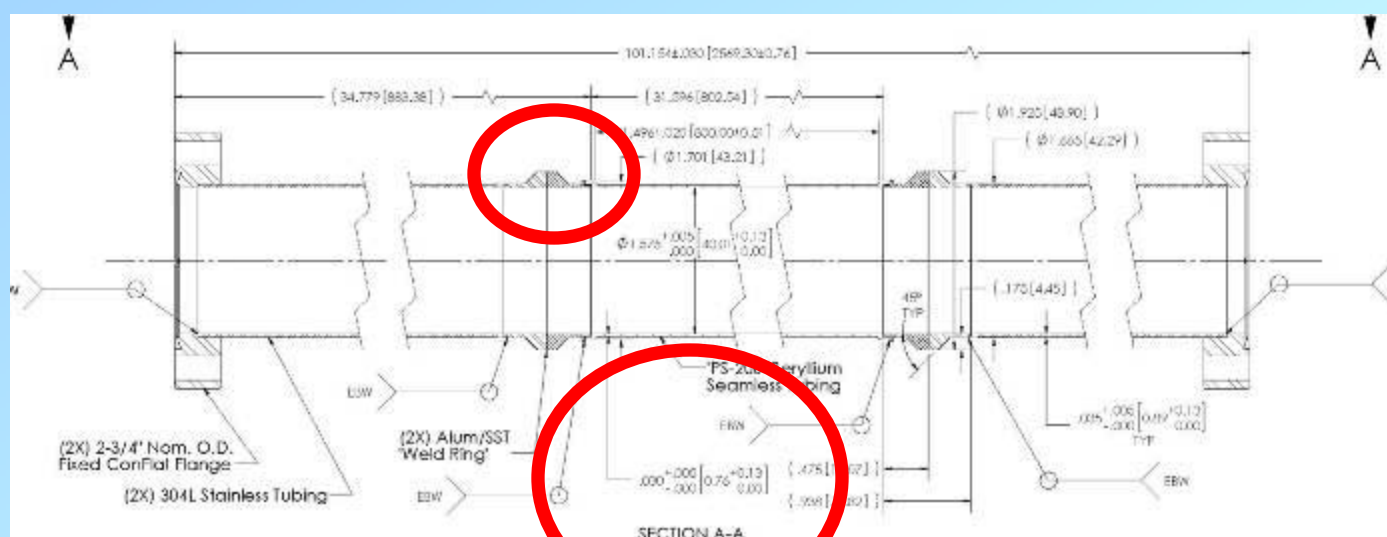
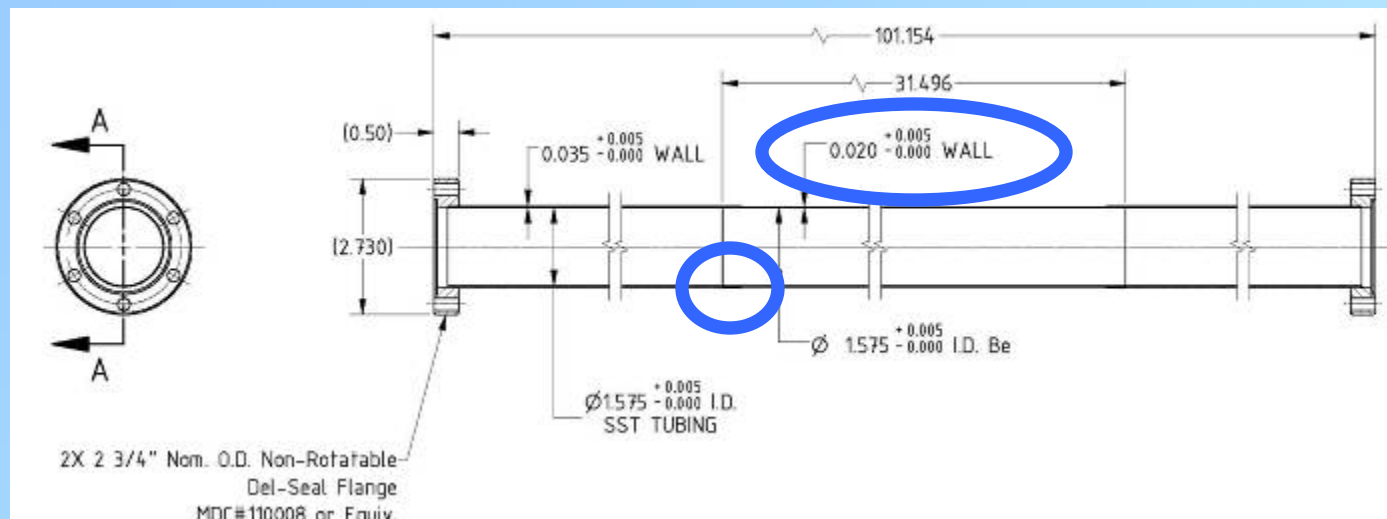
*Still Waiting  
for new CAP*

New Beampipe

PHENIX

SCD

Brush-  
Wellman  
CAP



## RPC Factory Change in Scope

### Remaining Action Items:

- Review the mechanical design of the burn-in assembly and the dolly system to be used in moving the  $\frac{1}{2}$  octant units. *Design In Progress, Review to follow*
- Update the RPC high voltage and gas procedures if necessary (Giannotti, Pisani Jan 30, 2009) *In progress*
- Add individual output valves to the burn-in unit gas schematics (Pisani, Jan 30, 2009) *In progress*
- Get a permit for the R134 added consumption (Pisani, Van Essendelft, Jan 30, 2009) *In Progress*
- Review the flammable compressed gas system piping ( Gaffney, Pisani Jan 30, 2009) *To Be Scheduled*

## RPC Factory Support Tasks:

- Complete the Dark Current Test Stand (2/27)
- Order materials for Burn-in Test Stand (2/20)
- Complete design of Tilting Transport Table (2/13) Done Review needed
- Order materials for the Tilting Transport Table (2/20)
- Order additional shelf units for gap, module and RPCstructural component storage (2/20)
- Design and order environmental control system for Burn-In Test Stand (2/27)
- Assemble gap & module storage with humidity control existing shelves (2/27), full complement of shelves (3/13)
- Extend N2 supply to storage shelves (not required)
- Assemble structural component storage existing shelves (2/27), full complement of shelves (3/13)
- Assemble tilting transport table 3/6
- Assemble burn-in test stand (bike rack) 3/27
- Extend gas, electric and safety systems to Burn-In Test Stand (4/3)



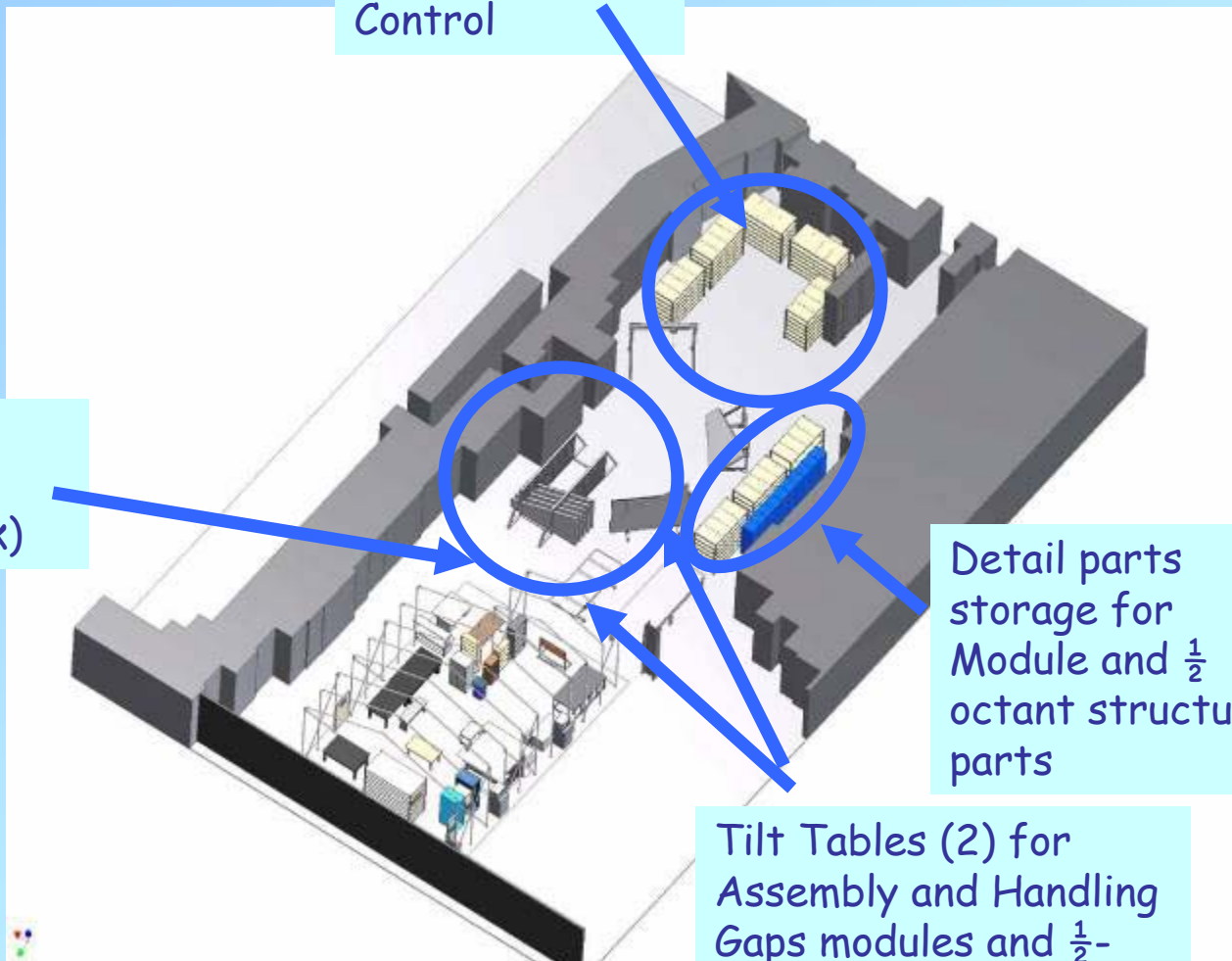
# RPC Factory

Burn-in  
test stand  
(bicycle rack)

Module and Gap  
Storage with  
humidity  
Control

Detail parts  
storage for  
Module and  $\frac{1}{2}$   
octant structural  
parts

Tilt Tables (2) for  
Assembly and Handling  
Gaps modules and  $\frac{1}{2}$ -  
octants

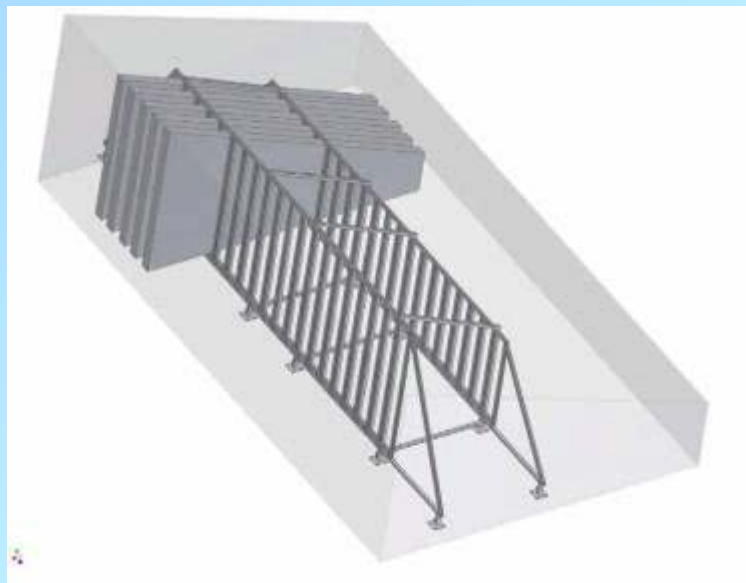


## Dark Current Test Stand under construction



## Also working on:

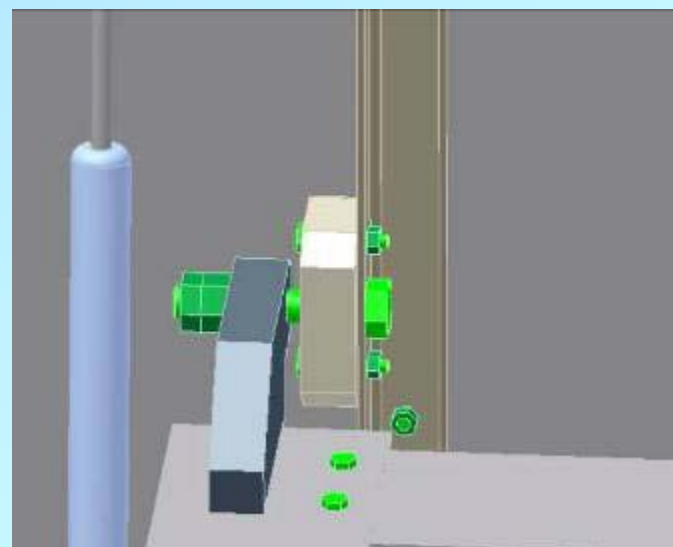
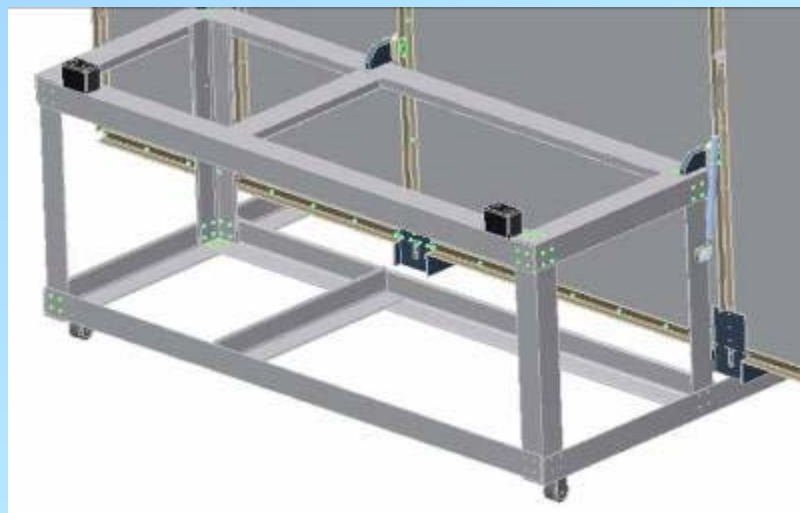
- a burn-in test stand for  $\frac{1}{2}$  octants



- additional storage for gaps modules and structural detail parts
- transport table/cart



# Half-Octant Assembly Tilt Table



## Shutdown '09 Major tasks (expect 5 month shutdown):

- 2009 shutdown Begins April 10, or July 1, 2009 or July 15 or ?????
- End run, remove wall, MuID collars down, EC to AH (3 weeks)
- Install Station 1 South scaffolding (1 week)
- Install Station 2/3 scaffolding (2 weeks)
- PC1 East repair (4 weeks)
- Install stations 1, 2 and 3 south MuTrigger FEE's (12 weeks)
- MuTr decapacitations: station 3 south (3 weeks)
- RPC Station 3 North (12 weeks)
- Prep for future upgrades/existing equipment maintenance & Repair (as necessary)

## 1. PHENIX Annual Safety Review Remaining Action Items:

- Settle the CM magnet ladder railings (Lynch, ~~Pearson~~ Phillips Feb 4, 2009) *Don and Dave to resolve*
- Update the documented work procedures. (Lynch) *Ongoing*
- Add HSSD to the 1008 Assembly Hall (Phillips/ Levesque Mar 1, 2009) *This is a C-A issue.*

## 2. ICE = In Case of Emergency Add emergency contact(s) to your cell

<http://www.icesticker.com/>

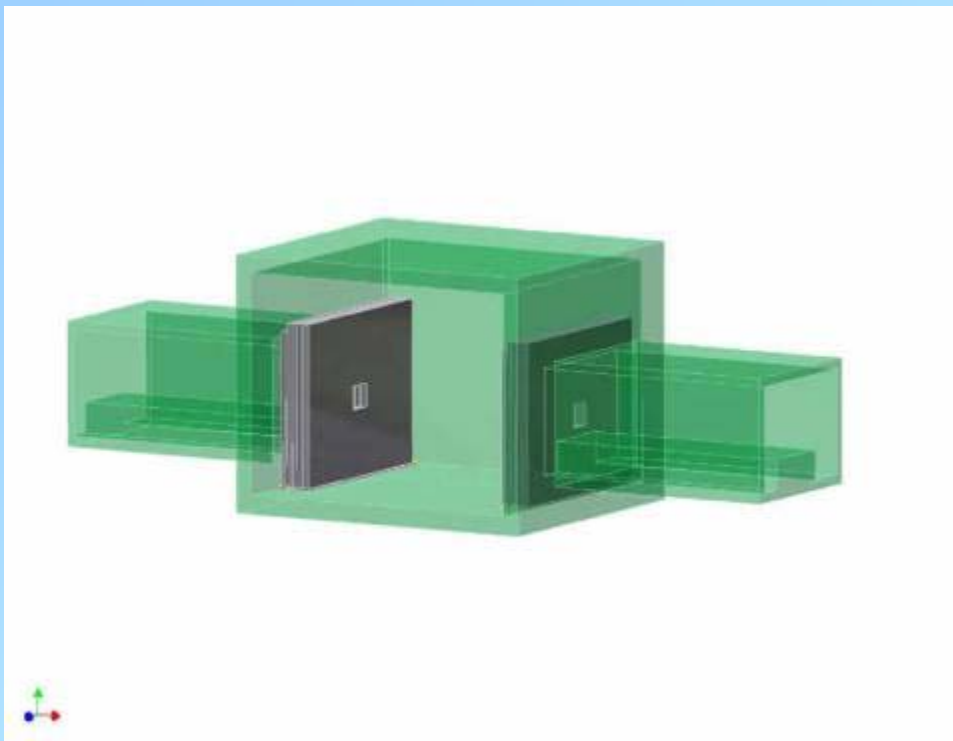
## 3. PHENIX AWARENESS is updated. May not be updated on web yet.

ODH addressed

Contact list changed to web reference

If in doubt about planning contact any PHENIX work coordinator

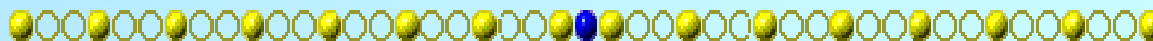
# Where To Find PHENIX Engineering Info



It's going to be busy  
during the run,

Then busier still  
during the '09  
shutdown

Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)

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